



Established 1954

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PRODUCT INFORMATION

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DIGITAL LIQUID LAMINATES

Water based clear protective coatings for inkjet vinyl media

UV DIGI CLEAR

Description

UV Digi Clear is a water based clear that has been formulated to apply onto various digitally printed substrates. It is a water white clear that will impart mar and scratch resistance, water resistance and some chemical resistance. It is non- yellowing and contains UV absorbers to improve the outdoor durability of the print. Although UV Digi Clear is highly flexible and is particularly suitable for vinyl surfaces, it could also be used for canvas, paper and rigid surfaces.

Use

UV Digi Clear is water based and therefore can only be used on substrates, inks or pigments that are **not** water sensitive. Note, some water based inks are water resistant when dry. Use Viponds Digi Lac solvent base for water sensitive inks and substrates.

Surface Preparation

The success of this product is determined by the level of adhesion to the substrate and ink. If adhesion is suspect then application of Viponds Digi Primer will help. Digi Primer was introduced because the adhesion of liquid laminates onto prints using the new generation eco solvent inks is inferior.

Generally no surface preparation is required, but if the surface is contaminated then the U V Digi Clear may not wet the surface and cissing (does not form a continuous film or may form beads on the surface) may occur. A second application of the UV Digi Clear may solve this problem. If cissing occurs, a wipe over with a damp cloth prior to application may help. It is also important that the ink is completely dry to prevent outgassing. Check with the ink manufacturer for drying specifications.

Application

This product will sometimes bubble on application. This can be caused by the type of substrate, ink system or the method of application.

The best method of application is spraying or using a paint pad applicator. Brushing and rolling agitates the liquid and may cause bubbles. A special laminate version is available for use with machine liquid laminators.

Pad Applicator – These are made of a fine fabric attached to foam and are available in many different sizes and configurations. The pad glides over the surface without creating bubbles.



Spraying – HVLP or Conventional. Use a 2 mm fluid tip and 280 – 420 KPa (40-60psi) Apply a light mist coat to seal the print and allow to dry (10 to 20 minutes). Apply one or two medium coats to the desired finish.

Do not shake the bottles of Digi Clear. Invert or rotate them a couple of times before use. This product dries quickly in temperatures above 20deg C. Addition of the Viponds Digi Clear Retarder will slow the drying to allow longer wet edge (application) time.

One coat applied at a rate of 16 square metres per litre per coat will give some scratch and solvent resistance but two coats is required for any UV protection and gloss.

Drying

Do not apply if the temperature is below 10 deg. C or in high humidity. Under normal drying conditions it will be touch dry within 20 minutes and can be recoated after 1 hour. Allow at least 2 hours for full cure. Allow overnight drying before rolling up prints.

This product can be forced air dried.

With the addition of retarder allow longer drying times.

Gloss Level

UV Digi Clear dries to a gloss finish but the degree of gloss depends on the substrate and the amount of clear applied. A lower gloss finish can be obtained by addition of the Digi Clear Matting Agent. Addition of matting agent will reduce the exterior durability of the clear.

Thinning and Cleaning

If thinning is required use clean water only. Addition of too much water may cause foaming problems. Clean equipment with water. Methylated spirits will soften UV Digi Clear and assist clean up.

Availability

Ex Stock 4 litre, 1 litre and 500 ml bottles.

10 litres are made to order

Testing

The digital print market is continually changing, with new substrates and inks being offered on a regular basis. As the methods and conditions of application and use of this product are beyond control of Vipond's Paints Pty. Ltd. it is recommended that the customer tests the product thoroughly for their own particular application.

The main test is to check adhesion – UV Digi Clear forms a very tough film and if the adhesion is not satisfactory then the clear can delaminate from the substrate. Use of Viponds Digi Primer may overcome this problem.

It is also important to determine the best method of application and film thickness required to achieve the desired properties for the end application.

Call customer service (03) 93504188 for further information or for the location of your nearest stockist.

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